

ABSTRACT OF THE DISCLOSURE

An audio processing system for used in a multi-channel audio chip includes a multiplexer, a digital-to-analog converter, a de-multiplexer, a controller and N sample-and-hold circuits. The multiplexer receives N digital signals and outputs
5 the digital signals one by one in a time-division manner. The digital-to-analog converter receives the digital signals from the multiplexer and converts them into corresponding N analog signals. The de-multiplexer outputs the analog signals one by one in a time-division manner. The controller generates control signals to control the selection of the multiplexer and the de-multiplexer. The sample-and-
10 hold circuits hold the analog signals for a predetermined period of time and then outputs the signals, respectively.